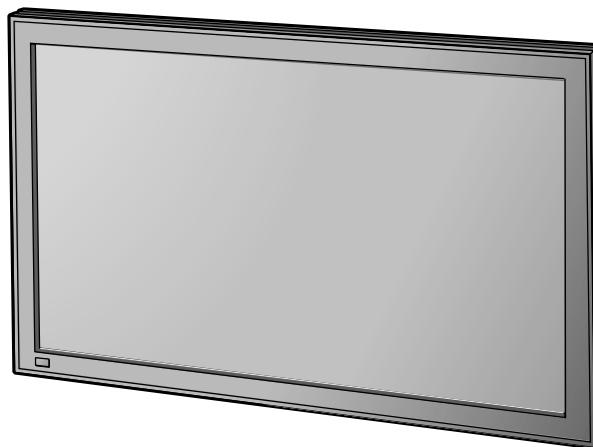


USER'S MANUAL

42" WIDE PLASMA DISPLAY
PDS4229W

Plasmavision™



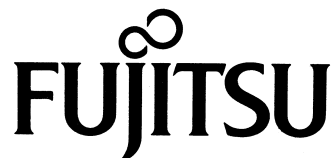
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Before using the display, read this manual carefully so that you know how to use the display correctly. Refer to this manual whenever questions or problems about operation arise. Be sure to read and observe the safety precautions.

Keep this manual where the user can see it easily.

** Installation and removal require special expertise. Consult your product dealer for details.*



DECLARATION OF CONFORMITY

according to EN45014

We

Fujitsu General (U.K.) Co. Limited

of

Ground Floor, Elstree House, Elstree Way, Borehamwood, Herts WD6 1LS

Manufacturer: Shinjyo Fujitsu General Limited
702-3 Kanazawa Shinjyo-shi
Yamagata Japan

declares under our sole responsibility that the product,

Type: 42" PLASMA DISPLAY

Model Name: PDS4229W

to which this declaration relates are in conformity with the following standards;

European Standards:

- EMC: a. EN55022 1994/A1:1995/A2:1997/A3:1998 Class A
b. EN61000-3-2 1995
c. EN61000-3-3 1995
d. EN55024 1998
(EN61000-4-2 1995 / EN61000-4-3 1996)
(EN61000-4-4 1995 / EN61000-4-5 1995 / EN61000-4-6 1996)
(EN61000-4-8 1993 / EN61000-4-11 1994)
- Safety: e. EN60950 1992/A1:1993/A2:1993/A3:1995/A4:1997

*By conformance with the standard referenced, the product follows
the provisions of the directives listed below.*

- a. EC Council Directive 89/336/EEC of 3rd, May 1989
b. EC Council Directive 92/31/EEC of 28th, April 1992
c. EC Council Directive 93/68/EEC of 22nd, July 1993
d. EC Council Directive 73/23/EEC of 19th, February 1973

Place of Issue: United Kingdom

Date of Issue: Mar. 2001

Signature: _____

H. Hirosaki, Chief Executive Officer
Fujitsu General (U.K) Co. Limited

Declaration reference: Fujitsu General (U.K) Co. Limited

Ground Floor, Elstree House, Elstree Way, Borehamwood, Herts WD6 1LS

Tel: 44-208-421-7000

Fax: 44-208-421-7029

SAFETY PRECAUTIONS

FCC NOTICE

- PDS4229W: A Class A digital device

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

IMPORTANT INFORMATION

WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

WARNING: TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

IMPORTANT SAFEGUARDS

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these "Important Safeguards" carefully before use.

- All the safety and operating instructions should be read before the product is operated.
- The safety and operating instructions should be retained for future reference.
- All warnings on the product and in the operating instructions should be adhered to.
- All operating instructions should be followed.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- Do not use this product near water. Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.
- When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the product and cart to overturn, damaging equipment or causing possible injury to the operator.



- Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or other similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)

For proper ventilation, separate the product from other equipment, which may prevent ventilation, and keep distance more than 10 cm.

- This product should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply of your home, consult your product dealer or local power company.

- This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.
- For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.
- Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
- Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.
- Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions:
 - a) When the power supply cord or plug is damaged.
 - b) If liquid has been spilled, or objects have fallen on the product.
 - c) If the product has been exposed to rain or water.
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - e) If the product has been dropped or damaged in any way.
 - f) When the product exhibits a distinct change in performance—this indicates a need for service.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- The product should be placed more than one foot away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.
- When connecting other products such as VCR's, and personal computers, you should turn off the power of this product for protection against electric shock.
- Do not place combustibles behind the cooling fan. For example, cloth, paper, matches, aerosol cans or gas lighters that present special hazards when overheated.
- Use only the accessory cord designed for this product to prevent shock.

The power supply voltage rating of this product is AC100–240 V, and the power cord attached conforms to the following power supply voltage. Use only the power cord designated by our dealer to ensure Safety and EMC.

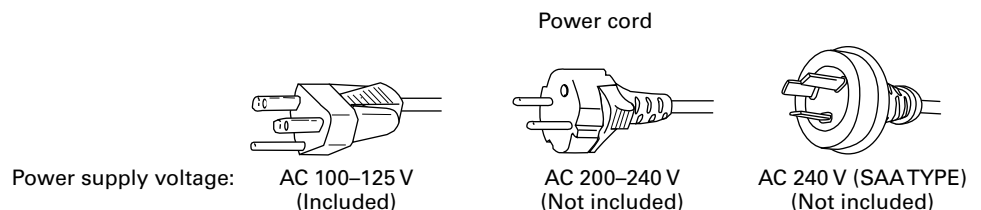
Use the standard power plug and cord set of the specified country.

Consult your product dealer.

When it is used with other power supply voltage, the power cable must be changed.

Use the standard power plug and cord set of the specified country.

Consult your product dealer.



FEATURES

This display uses a plasma display panel and is only 8.5 cm deep. With its high picture quality and performance, it is perfectly suited for multimedia applications.

Variety of input signals

- In addition to video, S-video, and RGB (mD-sub Connector), signals, this display supports input of high-quality video signals such as DVD and HDTV.
- Depending on the model, the display supports video input for different color television systems as follows: NTSC, PAL, SECAM, PAL60, 4.43NTSC.
- The display has a component video input terminal to receive signals from the DVD player and HDTV equipment as well as digital broadcasting signals (color difference signals).
- The display has an RGB input terminal to receive signals, including VGA, SVGA, and XGA^{*1}.

5 screen sizes (Video and Decoder input mode) and 3 screen sizes (RGB-PC input mode)

- This display offers a total of five different screen sizes in video and Decoder input mode: Wide1, Wide2, Zoom1, and Zoom2. A Normal mode is also available for displaying of normal-size (4:3 aspect ratio) pictures.
- Three different screen sizes in RGB-PC input mode (Normal, Wide, and Zoom) are also available.
- The 852 x 480 dot area can be selected from the 1024 x 768 dot display by switching to Zoom display with XGA (Vertical frequency less than 75Hz) input.

Vertical installation

- The display can be installed vertically, enabling advertisement to be displayed. In this case, you can set up the display so that on-screen information, such as input modes and menus, is displayed properly.

Power management function

- The display features a DPMS (Display Power Management Signaling) function that ensures automatic power saving capability.

Flexible as part of a system

- You can operate the display by remote control using the RS-232C interface.
- If you have two or more displays, you can assign a unique number to each of them so that you can select which one you want to use.
- Input Priority function for selecting automatic switching to desired mode is provided to avoid troublesome operation.
- Main unit key lock function can prevent mischief and malfunction.

Others

- Troublesome adjustment of clock phase can be avoided by automatic clock phase adjustment function (Automatic Clock Phase function).
- You can specify the color temperature.
- The white screen and screen orbiter functions are available to minimize phosphor burn-in.

^{*1} The refresh rate of 60, 70, 75 Hz for XGA (1024 x 768) and those of 60, 72, 75 and 85 Hz for SVGA (800 x 600) are supported. Note that the XGA and SVGA pictures will be smaller when displayed on the screen.

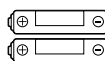
ACCESSORIES

CHECKING ACCESSORIES

One remote control



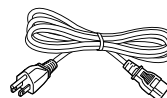
Two AA batteries



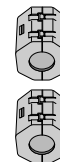
One user's manual



One power cable



Two ferrite cores



HANDY TIPS

- Pictures may become “burnt” into the screen phosphors if the screen is left on for extended periods. To ensure that the display has a prolonged service life, be sure to use a screen orbiter, white screen. This will ensure the same picture or pattern is not constantly displayed for long periods. (See P. 33.)
- The plasma display panel, which is built for maximum precision, provides more than 99.99% effective pixels. You may find, however, that some pixels constantly remain lit or dimmed.
- The display has a fan to prevent its internal temperature from rising.
- Be careful with the air delivered by the fan. It may be very hot.
- Contact your dealer if you find that the display does not seem to function properly when used with other audio-visual equipment.
You may need to move your display if it produces degraded pictures or noise due to electromagnetic radiation, or if the infrared remote control does not function properly.
- Pictures may not be displayed properly if you connect a non-standard PC to the RGB input terminal. In this case, contact your dealer for more information.
- The protective circuit, built into the display, automatically turns off the power if the display has a problem. In this case, you will see that the power indicator lamp flashes red.

Warning

If the power indicator lamp flashes red, this signifies that the display has developed a problem. When this happens, be sure to remove the power plug from the receptacle to prevent fire or electric shock. Then, check the display in accordance with the instructions given on P. 40, or contact your dealer.

- Viewing the screen constantly for extended periods can strain your eyes. Be sure to stay at a proper distance (at least 1.5 m or 5 feet) from the screen and to look occasionally away while working.
- Have the display inspected and cleaned by your dealer at regular intervals.

Information

Cables for connecting the display to external equipment are not supplied. Contact your dealer for more information on these products.

INSTALLATION

To prevent the display's internal components from overheating, make sure that the display is installed in a well-ventilated location.

Be sure to use the optional stand, wall-mounting unit or the other unit when installing the display. Also, be also sure that your dealer performs the installation.

See the appropriate instruction manual for more information on the installation hardware you select.

To prevent an accident and ensure safety in the event of an earthquake, fix the display securely into position as described below.

To ensure proper heat radiation, provide at least as much space around the display as shown below.

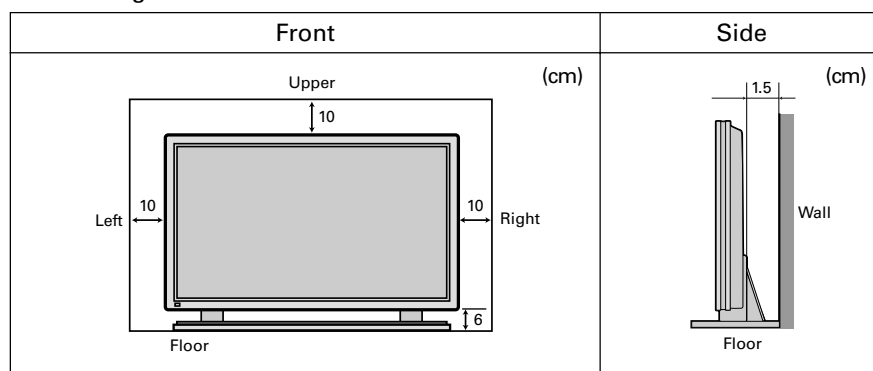
* Make sure that the display is installed in a location where the temperature can be maintained between 0°C and 40°C.

* Never attempt to tilt the display sideways or backward.

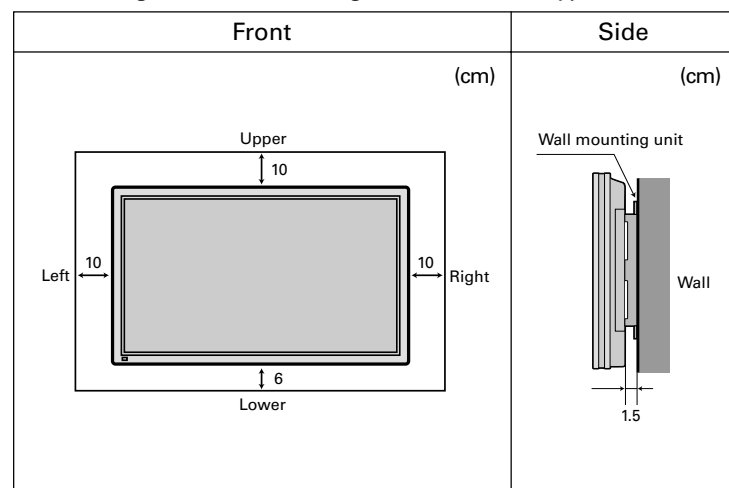
* To prevent the power and other cables from being accidentally pulled, make sure that they run along the wall or through corners.

* The display can be installed with either of its sides facing down.

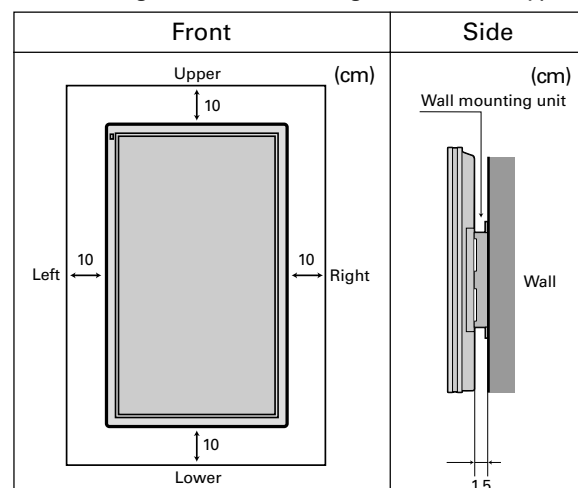
When using the stand



When using the wall-mounting unit (horizontal type)



When using the wall-mounting unit (vertical type)



* When installing the display vertically, be sure to rotate the text.(Refer to OSD Rotate. See P.30) and setup vertical installation. (Refer to Installation. See P.35)

Note

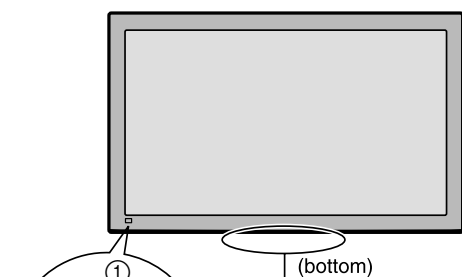
The display is a highly precise piece of equipment and therefore must be packed properly before transportation. Be sure to use only those packing materials originally supplied with the display when repacking it.

Reference

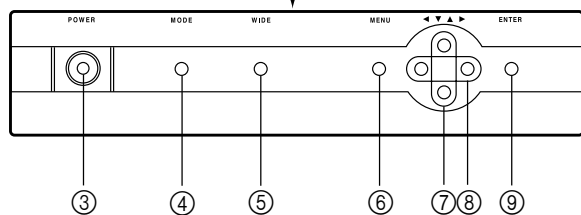
See P. 37 for more information on options.

PART NAMES AND FUNCTIONS

Front



Control Panel (bottom)



① Power indicator lamp

This lamp shows the state of the power supply.

Lit (red): Standby

Lit (green): Power ON

Lit (orange): Power saving (DPMS: Power saving function) mode ON

Flashing (red): Malfunction (Flashes differently depending on the type of malfunction. See P. 40 for more information.)

② Remote control signal receiver

Receives signals from the remote control.

③ Power button [POWER]

Turns the power ON or OFF.

④ Input mode selector button [MODE]

Switches between picture input modes.

⑤ Wide screen selector button [WIDE]

Switches the screen over to a desired wide screen.

⑥ Menu button [MENU]

Displays picture adjustment menus.

⑦ Adjustment buttons [▼ / ▲]

The [▼ / ▲] buttons can also be used to scroll through options when a menu is displayed.

⑧ Adjustment buttons [◀ / ▶]

The [◀ / ▶] buttons can also be used to scroll through options in a menu, or to change values.

⑨ Set button [ENTER]

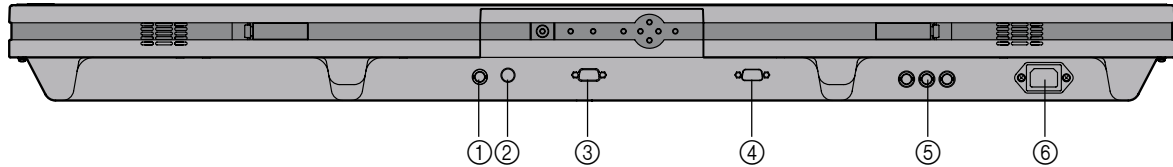
Press this button to finalize the selection of a desired option in a menu.

Warning

If the power indicator lamp flashes red, this signifies that the display has developed a problem. When this happens, be sure to remove the power plug from the receptacle and contact your dealer. Leaving the display power ON can result in fire or electric shock.

PART NAMES AND FUNCTIONS (Continued)

Bottom



① **Video input terminal (VIDEO INPUT)**

Connect this terminal to the video output terminal of your VCR or video disk player.

② **S-video input terminal (S-VIDEO INPUT)**

Connect this terminal to the S-video output terminal of your VCR or video disk player.

③ **RS-232C terminal (RS-232C)**

This terminal is provided for you to control the display from the PC. Connect it to the RS-232C terminal on the PC.

When connecting a cable, attach a ferrite core to the cable. (See P. 12.)

* No RS-232C cable is supplied with the display. The type of cable to be used varies depending on the PC model. Contact your dealer for more information.

④ **RGB input terminal (RGB INPUT/mD-sub)**

Connect this terminal to the PC's display (analog RGB) output terminal or decoder (digital broadcast tuner, etc.) output terminal.

* No RGB cable is supplied with the display. The type of cable to be used varies depending on the PC model. Contact your dealer for more information.

⑤ **Component video input terminal (COMPONENT VIDEO INPUT)**

Connect this terminal to the component video output (color difference output) terminal of your HDTV unit or DVD player.

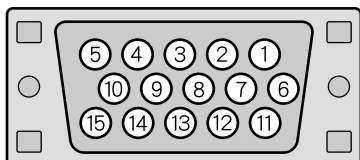
When connecting a cable, attach a ferrite core to the cable. (See P. 12.)

⑥ **Power input terminal**

Connect this terminal to the power cable supplied with the display.

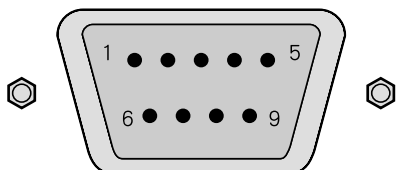
Description of Input Terminals

RGB input terminal (RGB INPUT/mD-sub)



Pin No.	Input signal	Pin No.	Input signal
1	Red	9	—
2	Green	10	Ground
3	Blue	11	—
4	—	12	—
5	Ground	13	Horizontal synchronization (TTL)
6	Ground	14	Vertical synchronization (TTL)
7	Ground	15	—
8	Ground	Frame	Ground

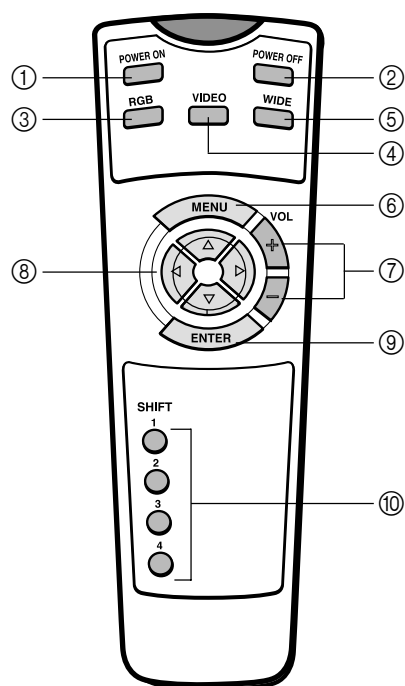
RS-232C terminal (RS-232C)



Pin No.	Signal
1	DCD (Data Carrier Detect)
2	RD (Received Data)
3	TD (Transmit Data)
4	DTR (Data Terminal ready)
5	GND (Ground)
6	DSR (Data Set Ready)
7	RTS (Request To send)
8	CTS (Clear To Send)
9	RI (Ring Indication)

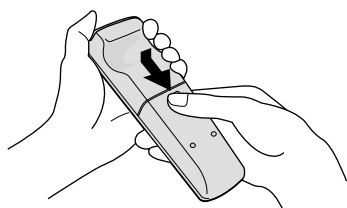
PART NAMES AND FUNCTIONS (Continued)

Remote Control

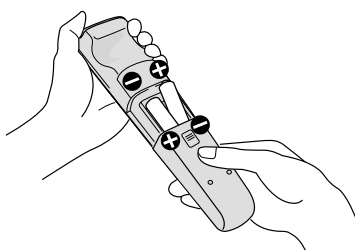


- ① **Power ON button [POWER ON]** → (See P. 14.)
Turns the power ON.
- ② **Power OFF button [POWER OFF]** → (See P. 14.)
Turns the power OFF.
- ③ **RGB input mode selector button [RGB]** → (See P. 15.)
Switches between RGB input modes.
- ④ **Video input mode selector button [VIDEO]** → (See P. 15.)
Switches between video input modes.
- ⑤ **Wide screen selector button [WIDE]** → (See P. 16–17.)
Switches the screen over to a desired wide screen.
- ⑥ **Menu button [MENU]** → (See P. 18–36.)
Use this button to display a desired menu for adjusting the picture.
- ⑦ **Volume adjustment buttons [VOL +/-]**
Unused.
- ⑧ **Adjustment buttons [◀ / ▶ / ▲ / ▼]** → (See P. 18–36.)
Use these buttons to scroll through options in a menu and change values.
- ⑨ **Enter button [ENTER]** → (See P. 18–36.)
Press this button to finalize the selection of a desired menu or option within a menu.
- ⑩ **Display selector buttons [SHIFT 1–4]** → (See P. 34.)
When you use two or more displays, you can use these buttons to control up to four displays by assigning a unique number to each display.

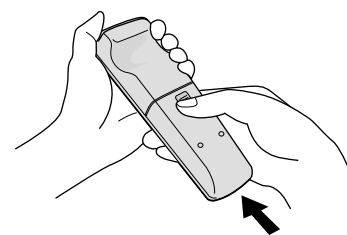
PUTTING BATTERIES IN THE REMOTE CONTROL



- ① To remove the cover, slide it outwards while pressing it down.



- ② Place two AA batteries in the remote control. Make sure that the batteries are properly oriented.



- ③ Close the cover until it snaps into place.

Note

The remote control will not function properly if the batteries are dead. Be sure to replace them as needed. Make sure that you use replace the batteries with new ones; also, be sure to use replacement batteries of the same type as the original ones.

USING THE REMOTE CONTROL

PRECAUTIONS

To prevent malfunction, be sure not to apply any form of severe shock to the remote control.

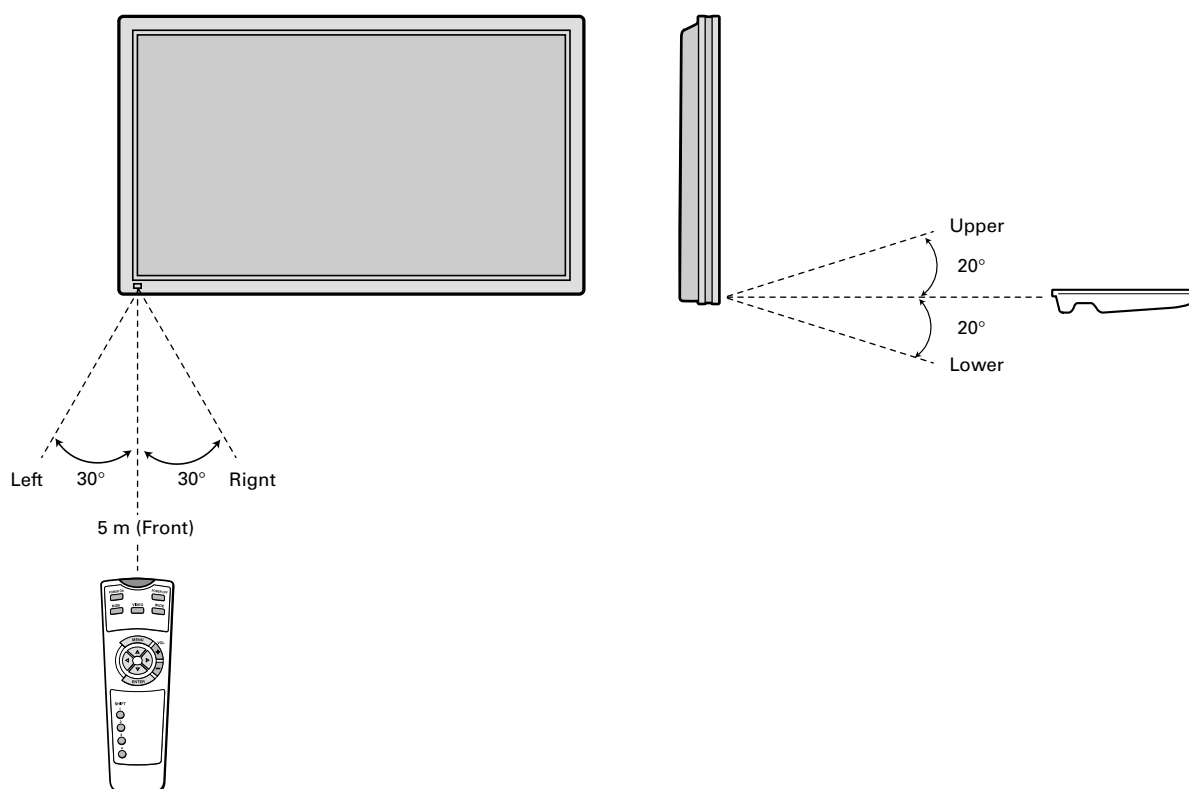
To prevent malfunction or deformation, be sure not to allow the remote control to become wet; also, keep it away from hot locations or heating equipment.

Be sure not to clean the remote control using a cloth dampened in any volatile solvent, such as benzene or thinner.

EFFECTIVE RANGE FOR THE REMOTE CONTROL

Point the remote control at the display's signal receiver when using it.

Make sure that there are no obstacles between the remote control and the display's signal receiver.



Information

The remote control may not function properly if you use a high-frequency fluorescent lamp. If you experience problems, move the lamp or use the remote control from a different position.

CONNECTING THE DISPLAY TO EXTERNAL EQUIPMENT

Be sure to turn OFF the power to the display and external equipment before making any connections.

No cables are supplied with the display for connection to external equipment. The type of cable to be used varies depending on the PC model. Contact your dealer for more information.

RECEPTACLE

Make sure that the power cable's grounding wire is grounded.

The display comes with a 3-prong power plug; one prong is connected to the grounding wire. If you have only a 2-hole receptacle, you will need to have it replaced. Contact your dealer for more information.

CONNECTING THE DISPLAY TO EXTERNAL EQUIPMENT

Carefully check the terminals for position and type before making any connections.

Loose connectors can result in picture or color problems. Make sure that all connectors are securely inserted into their terminals.

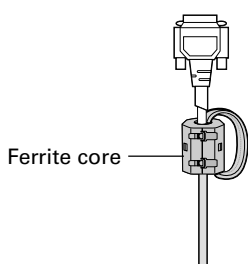
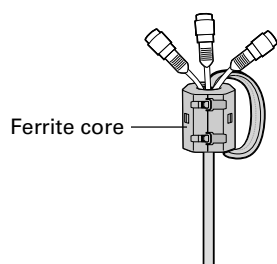
Terminal	Connector
VIDEO INPUT	BNC
S-VIDEO INPUT	S terminal
COMPONENT VIDEO INPUT	BNC x 3
RGB INPUT	mD-sub 15-pin
RS-232C	D-sub 9-pin

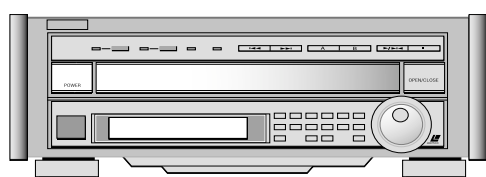
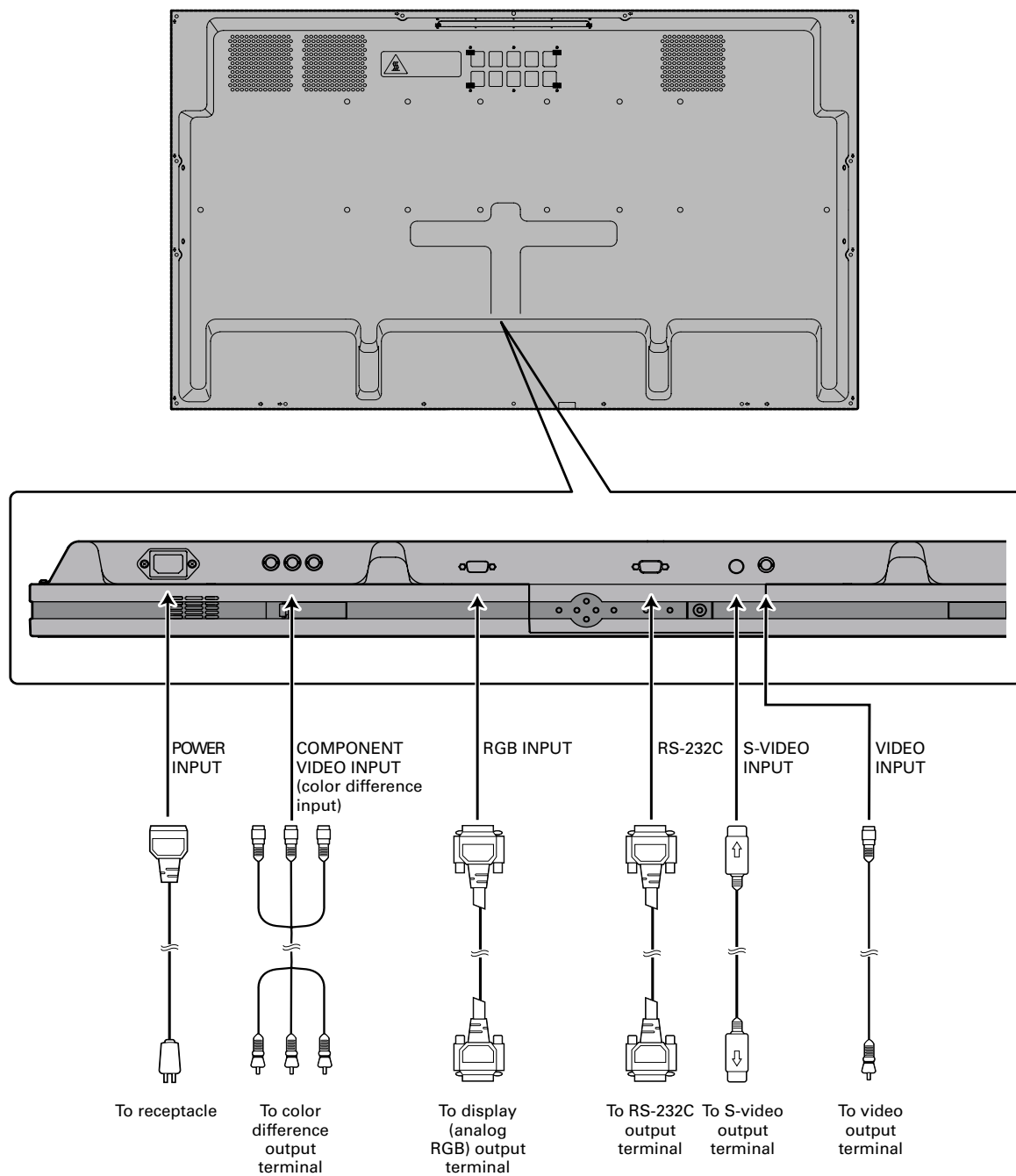
Ferrite cores

These ferrite cores are used to attenuate undesired signals.

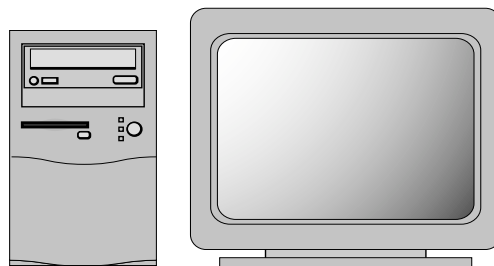
Two ferrite cores

When connecting a cable to the component video input terminal, RS-232C terminal, attach one of these ferrite cores to the cable near the terminal.





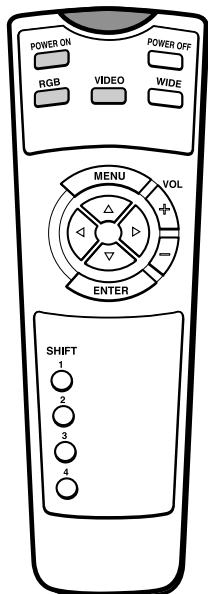
Connection to AV equipment




Connection to PC

BASIC OPERATIONS

TURNING ON THE POWER



1 Press ^{POWER ON}  on the remote control.

When you do so, the power indicator lamp turns green.

2 Press ^{RGB}  or ^{VIDEO}  to select a desired input mode.

* You can also use the switches on the display's control panel to accomplish these steps.

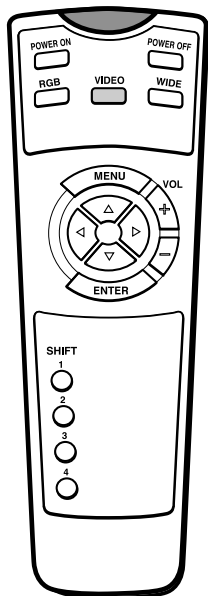
TURNING OFF THE POWER

Press ^{POWER OFF}  when the power is ON.

The power indicator lamp turns red.


SELECTING INPUT MODE


VIDEO INPUT MODE



* You can also use the switches on the display's control panel to accomplish these steps.

1

Press  to select a desired input mode.

Each time you press , a different input mode appears. The sequence is as follows:

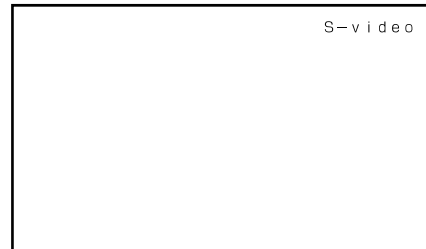
➔ Video ➔ S-video ➔ Comp.video ➔

Video: Displays pictures from equipment connected to the Video terminal.

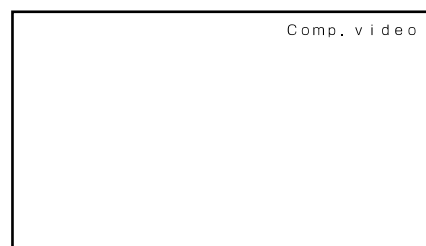
S-video: Displays pictures from equipment connected to the S-video terminal.

Comp.video: Displays pictures from equipment connected to the component video input terminal.

* You can switch between video input modes while you are in RGB input mode.

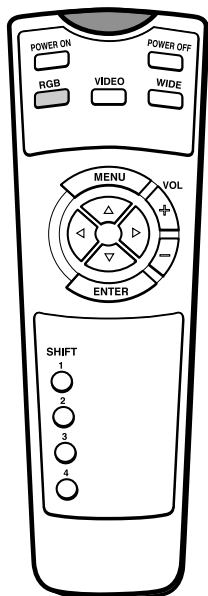


S-video mode



Comp.video mode


RGB INPUT MODE



* You can also use the switches on the display's control panel to accomplish these steps.

1

Press  to select a desired input mode.

Press the  to switch to RGB mode.

RGB: Displays pictures from equipment connected to the RGB (mD-sub) terminal.

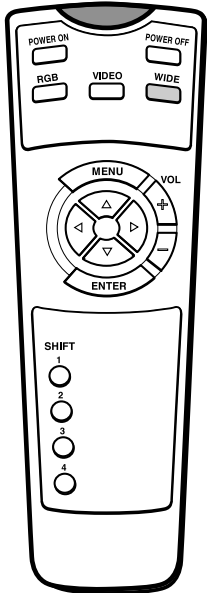
* You can switch between RGB input modes while you are in a video input mode.



RGB mode

WATCHING PICTURES ON THE WIDE SCREEN

SWITCHING BETWEEN SCREEN SIZES



* You can also use the switches on the display's control panel to accomplish these steps.

1 Press **WIDE**.

The currently selected mode will appear.

2 Press **WIDE** to select a desired picture mode.

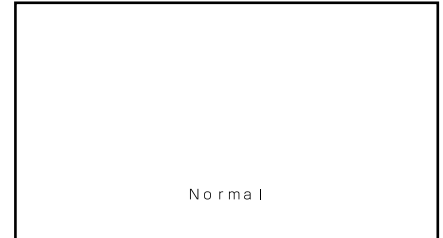
Each time you press **WIDE**, a different picture mode appears. The sequences used are as follows:

When you are in a video and Decoder input mode

➔ Normal ➔ Wide1 ➔ Wide2
Zoom2 ← Zoom1 ←

When you are in an RGB-PC input mode

➔ Normal ➔ Wide ➔ Zoom



Normal mode



Wide1 mode

* Depending on the type of signal, some aspects may not be selected.

Note

- Displaying a picture in a 4 x 3 mode for extended periods of time may cause phosphor burn-in.
- A variety of picture modes are available with this display. Remember that if you select a mode with an aspect ratio (ratio of frame width to frame height) different from that of the TV program or video media, the pictures will appear differently than if you had selected a mode having the same aspect ratio.
- Showing a movie or similar premium event at a different aspect ratio from its original one at any event site, restaurant, or bar for profit-making purposes or for a public audience may constitute a copyright infringement.
For films, try to select a mode having the same aspect ratio as the original picture; this enables the director's original intentions to be preserved.

Reference

See P. 26–27 for how to adjust the picture size and position.

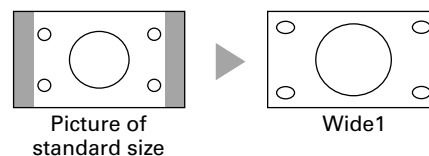
SCREEN SIZE

Normal

Displays pictures of normal size (i.e., a 4:3 aspect ratio).

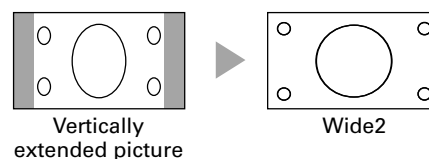
Wide1

Displays natural-looking pictures of standard size on the wide screen.



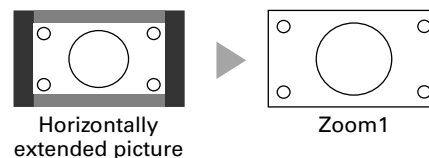
Wide2/Wide

Ideal for displaying vertically extended pictures such as squeezed pictures and recorded HDTV programs.



Zoom1/Zoom

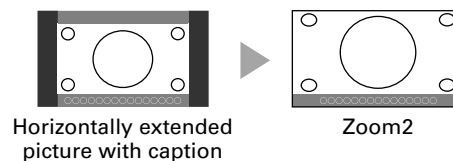
Enlarges horizontally extended pictures equally in all directions to maintain the aspect ratio constant.



Zoom2

Reduces the height of horizontally extended pictures with captions, without eliminating the caption. Only the height of pictures is reduced, not the height of the caption.

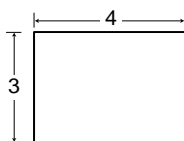
(Captions may not be easy to read, however, depending on the picture.)



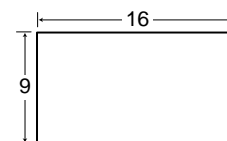
ASPECT RATIO

The following aspect ratios are available.

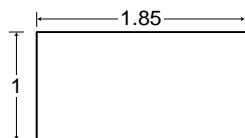
4:3 aspect ratio
(VHF/UHF broadcasting, BS broadcasting)



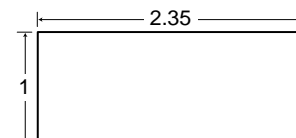
16:9 aspect ratio
(HDTV broadcasting)



1.85:1 aspect ratio
(Vista Vision size)



2.35:1 aspect ratio
(Cinema Vision size)



Information

You may find dark areas on top and at the bottom of the screen if you select one of the Zoom modes for media while using the Vista Vision or Cinema Vision size i.e., the sizes used frequently for picture software.

HOW TO USE MENUS



SELECTING OPTIONS IN A MENU

Use the [MODE] button on the display or  and  on the remote control to select a desired input mode.

1 Press .

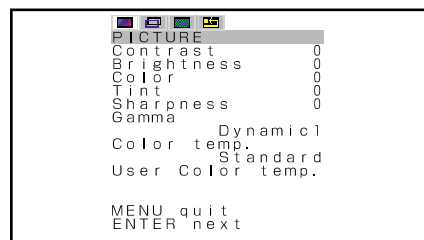
The main menu screen will appear.

2 Press or to switch between sub-menus.

Each time you press  or , one of the available menus appears.

The corresponding menu screen will appear.

3 Press or to select an option for adjustment/setup.



Ex.: "PICTURE" selected in the main menu screen

A total of three different menus (PICTURE, POSITION/SIZE, FEATURES, FACTORY DEFAULT) are available.

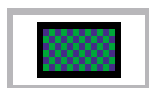
You can easily distinguish between these menus as shown below.



PICTURE








POSITION/SIZE



FEATURES




FACTORY DEFAULT

*Press , ,  or  to make adjustment/setup, and press  to store.




* Do not change input signals when any of the menus are displayed.

USING THE PICTURE MENU

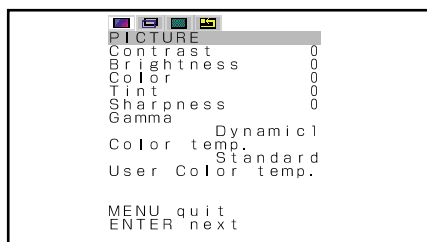


When you finish selecting a desired option in the PICTURE menu screen, press .

At this time, the adjustment/setup screen for that option will appear.

You can use  or  to change the value for the option. Press  to store. (See P. 24–25.)

Changes you make will be stored only for the selected mode.



PICTURE Menu screen (Video Input Mode)



PICTURE Menu screen (RGB Input Mode)

Option	Function	Operation	Range
(1) Contrast	Adjusts picture contrast.	⬅: Higher contrast ➡: Lower contrast	-30 to +30
(2) Brightness	Adjusts screen brightness.	⬅: Brighter screen ➡: Darker screen	-60 to +60
(3) Color (for Video, S-video, Comp.video)	Adjusts color darkness.	⬅: Darker colors ➡: Lighter colors	-60 to +60
(4) Tint (for Video, S-video, Comp.video)	Adjusts tint.	⬅: More greenish colors ➡: More purplish colors	-30 to +30 (Video, S-video) -60 to +60 (Comp.video)
(5) Sharpness	Adjusts picture sharpness.	⬅: Sharper pictures ➡: Less sharp pictures	-16 to +16 (Video, S-video, Comp.video, Decoder) -4 to +4 (RGB-PC)
(6) Gamma	Makes gamma correction.	Use ⬅ or ➡ for switching.	Video, S-video, Comp.video Dynamic1/Dynamic2/ Dynamic3 RGB Dynamic1/Dynamic2/ Dynamic3/Static
(7) Color Temp.	Adjusts color temperature.	Use ⬅ or ➡ for switching.	Warm/Standard/Cool/User
(8) User Color Temp.	Can set up when User is selected in Color Temp.	Press ⬅ or ➡ to select Red, Green or Blue and press ⬅ or ➡ to make adjustment.	0 to 255 for each of Red, Green and Blue

USING THE POSITION/SIZE MENU



When you finish selecting a desired option in the POSITION/SIZE menu screen, press **ENTER**.

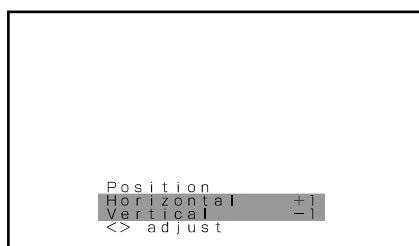
When you do so, the adjustment screen for that option appears.

Press ⬅ or ➡ to select option and press ⬅ or ➡ to make adjustment. Press **ENTER** to store. (See P. 26–27.)

Changes you make will be stored only for the selected mode.



POSITION/SIZE Menu screen



"Position" adjustment screen

Option	Function	Operation	Range
(1) Position	Adjusts screen position.		Video, S-video Horizontal: -30 to +30 Vertical Zoom: -15 to +15 Others: -7 to +7
Horizontal	Adjusts horizontal position.	⬅: Moves screen to the right. ➡: Moves screen to the left.	Comp.video: -16 to +16 1080i, 720p: -32 to +32 RGB: -150 to +150
Vertical	Adjusts vertical position.	⬅: Moves screen up. ➡: Moves screen down.	
(2) Size	Adjusts screen size.		Video, S-video: -7 to +7 Comp.video: -4 to +4 RGB: -25 to +50
Width	Adjusts width.	⬅: Increases width. ➡: Reduces width.	
Height	Adjusts height.	⬅: Increases height. ➡: Reduces height.	

HOW TO USE MENUS (Continued)

USING THE FEATURES MENUS



- **FEATURES setup screen has 5 options of Adjustment, Function, On Screen, Input Terminal and Others.**

- **Options with “↵” on the right**

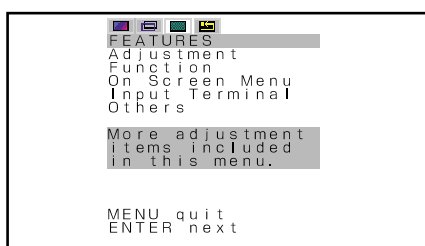
When you select an option with “↵”, press . The adjustment/setup screen for that option appears. (See P. 28–36.)

You can use or on this screen to make selections or changes. Press to store.

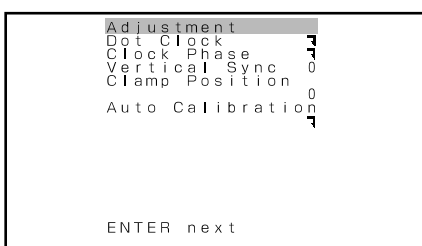
- **Options with no “↵” on the right**

When you select an option with no “↵”, press or to make selections or changes. Press to store. (See P. 28–36.)

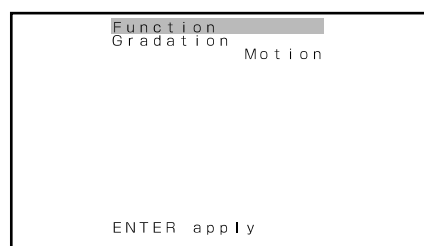
FEATURES Menu



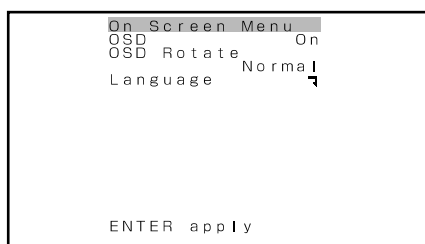
FEATURES Menu screen (RGB Input Mode)



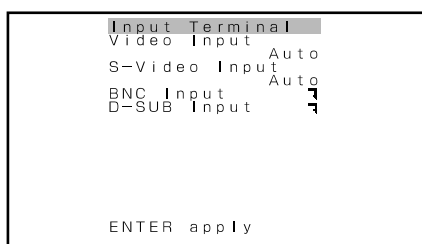
Adjustment Menu screen



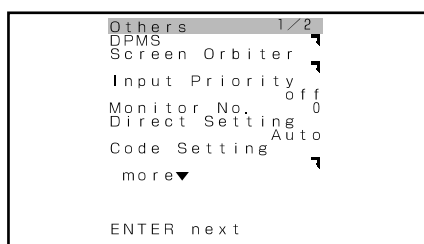
Function Menu screen



On Screen Menu screen



Input Terminal Menu screen





Others(1/2) Menu screen








Adjustment Menu (See P. 29.)

Option	Function	Operation	Range
(1) Dot Clock (for RGB)	Adjusts the dot clock.	Eliminates blur when the optimum value is selected with or .	-60 to +60
(2) Clock Phase (for RGB)	Adjusts clock phase.	Eliminates blur when the optimum value is selected with or .	Auto/Manual (Can adjust 1 to 32 for Manual)
(3) Vertical Sync (for RGB)	Corrects vertical synchronization signal.	Use or to select the optimum value for eliminating flicker.	-1 to +1
(4) Clamp Position (for Comp.video, RGB)	Adjusts clamp pulse phase.	Use or for switching.	-8 to 8
(5) Auto Calibration (for RGB)	Selects the optimum dynamic range of images.	Display Auto Calibration screen and press to execute. Select Execute, and select Yes and press to execute Auto Calibration.	Execute Yes/No











Function Menu(See P. 30.)

Option	Function	Operation	Range
(1) Gradation (for RGB)	Makes gradation correction.	Use  or  for switching.	Motion/Still

On Screen Menu(See P. 30)

Option	Function	Operation	Range
(1) OSD	Selects whether to display information other than menus.	Use  or  for switching.	On (displayed) Off (not displayed)
(2) OSD Rotate	Rotates on-screen text.	Use  or  for switching.	-90 Deg. (counterclockwise)/ Normal/ +90 Deg. (clockwise)
(3) Language	Selects language used for menus.	Display the “Language” selection screen and use  or  to select a language. Press  to display menus in the selected language.	English Deutsch (German) Español (Spanish) Français (French) Italiano (Italian) Português (Portuguese)

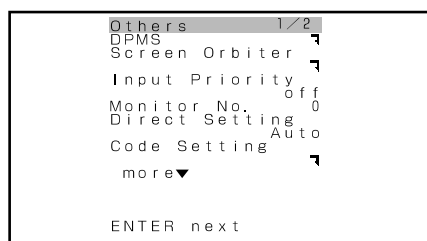
Input Terminal Menu(See P. 31–32.)

Option	Function	Operation	Range
(1) Video Input (for Video)	Selects video mode.	Use  or  for switching.	Auto/NTSC/PAL/SECAM/ PAL60/4.43NTSC
(2) S-Video Input (for S-video)	Selects video mode.	Use  or  for switching.	Auto/NTSC/PAL/SECAM/ PAL60/4.43NTSC
(3) BNC Input	Can set up Mask of BNC-Input (Comp. Video Input)	Use  or  for switching.	Mask off/5/10/15
(4) D-SUB Input	Selects D-SUB Input signal.	Display D-SUB Input screen and press  or  to select an option. Use  or  for switching. Use Function to select Decoder and set up Mask.	Function RGB-PC/Decoder Mask off/5/10/15

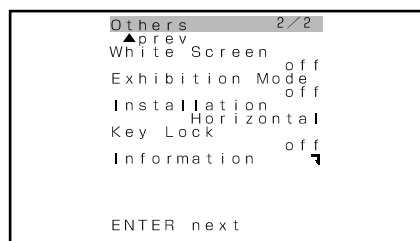
HOW TO USE MENUS (Continued)

Others Menu

Others Menu screen is divided into the following two screens.



Others(1/2) Menu screen



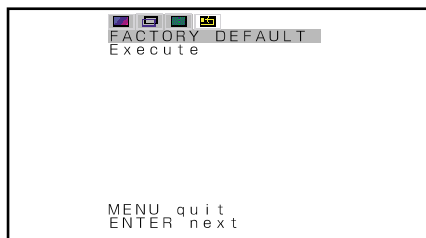
Others(2/2) Menu screen

Option	Function	Operation	Range
(1) DPMS	Specifies time before DPMS starts. Can specify the background color when specifying time.	Display DPMS screen and press or to select an option. Use or for switching. Can specify background by setting time to other than Off. Press to store.	Time Off (disabled)/1 min./ 15 min./45 min./60 min. Background Black/White
(2) Screen Orbiter (for RGB)	Sets up screen orbiter.	Display the “Screen Orbiter” adjustment screen and use or to select an option. Use or to switch between available choices for the selected option.	Mode/Time Off (disabled) Time (every 1 hr) Mode (every time mode is switched) Moving area Min.(moves in small range) Std.(moves in moderate range) Max. (moves in wide range)
(3) Input Priority	Specifies input mode of highest priority.	Use or for switching.	Off/RGB/Video/S-video/ Comp.video
(4) Monitor No.	Selects display number.	Use or for switching.	0 (no setup) 1/2/3/4
(5) Direct Setting (for RGB)	Selects input signal.	Use or for switching.	Auto/VGA/WVGA/480P/ XGA
(6) Code Setting (for RGB)	Specifies and displays type of input signal directly.	Display Code Setting screen and press or to select an option. Select Manual to set up Parameter.	Auto/Manual
(7) White Screen (for RGB)	Sets up to display white over the entire screen.	Use or for switching.	On /Off(disabled)
(8) Exhibition Mode	Sets up Exhibition mode.	Use or for switching.	On (Exhibition mode)/ Off(disabled)
(9) Installation	Sets up whether horizontal or vertical installation.	Use or for switching.	Horizontal/Vertical
(10) Key Lock	Locks the main unit button.	Use or for switching.	On (Key Lock)/ Off(disabled)
(11) Information	Displays system operation status.	Display the “Information” screen.	Display only

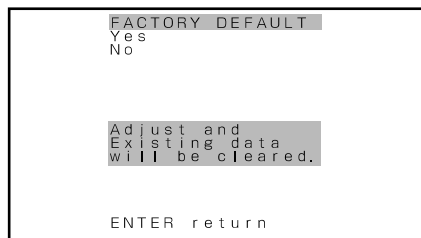
USING THE FACTORY DEFAULT MENU



- Select **FACTORY DEFAULT** and execute to restore the adjustment/setting made in the MENU to factory settings. (See P. 36.)



FACTORY DEFAULT Menu screen



Yes/No selection screen

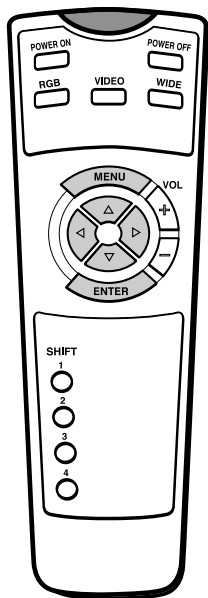
Option	Function	Operation	Range
FACTORY DEFAULT	Restores the adjustment/setting made in the MENU to factory settings.	Select Execute and Yes, and press ENTER to restore factory settings.	Yes/No

ADJUSTING PICTURES (PICTURE MENU)

BASIC OPERATIONS [EX.: ADJUSTING TINT (Tint)]

You can make changes to all picture adjustment options in the PICTURE Menu.

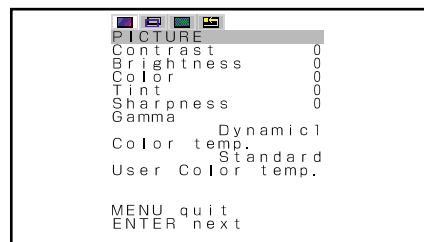
The changes you make will be stored for a selected input mode. Therefore, you need to select a desired input mode before making any changes.



* You can also use the switches on the display's control panel to accomplish these steps.

1 Press **MENU**.

The main menu screen will appear.



"PICTURE" selected in the main menu screen

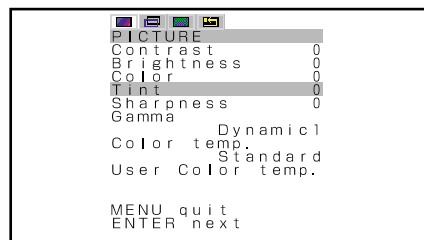
2 Press **◀** or **▶** to select "PICTURE".

Each time you press **◀** or **▶**, one of the available menus appears in the following sequence:

PICTURE ↔ POSITION/SIZE ↔ FEATURES ↔ FACTORY DEFAULT

The PICTURE Menu screen will appear.

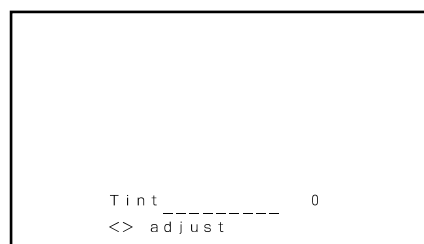
3 Press **◀** or **▶** to select "Tint".



"Tint" selected in the PICTURE Menu screen (Video Input Mode)

4 Press **ENTER**.

The "Tint" adjustment screen will appear.



"Tint" adjustment screen

5 Press **◀** or **▶** to change tint values.

◀: More greenish colors

▶: More purplish colors

6 Press **ENTER** to store.

Press **MENU** when you finish.

* Repeat steps 3, 4, 5, and 6 when you wish to make changes to other options.



• Adjusting Contrast (Contrast)

Any value between -30 and +30 can be selected.

[V] [S] [C] [R] [D]

↵: Higher contrast

↵: Lower contrast

Press to store.

• Adjusting Screen Brightness (Brightness)

Any value between -60 and +60 can be selected.

[V] [S] [C] [R] [D]

↵: Brighter screen

↵: Darker screen

Press to store.

• Adjusting Color Darkness (Color)

Any value between -60 and +60 can be selected.

[V] [S] [C]

↵: Lighter colors

↵: Darker colors

Press to store.

• Adjusting Tint (Tint)

Any value between -30 and +30 for [V][S], and -60 and +60 for [C] can be selected.

[V] [S] [C]

↵: More greenish colors

↵: More purplish colors

Press to store.

• Adjusting picture Sharpness (Sharpness)

Any value between -16 and +16 for [V][S][C][D], and -4 and +4 for [R], can be selected.

[V] [S] [C] [R] [D]

↵: Sharper pictures

↵: Less sharp pictures

Press to store.

• Making gamma correction(Gamma)

[V] [S] [C] [R] [D]

You can use this option to make a dynamic gamma correction suitable for still or motion pictures.

Each time you press ↵ or ↵, one of the available choices appears in the following sequence:

→ Dynamic1 ↔ Dynamic2 ↔ Dynamic3 ↔ Static ←

Dinamic 1, 2, 3: Suitable for watching a motion picture.(Use either of better picture quality.)

Static: Suitable for watching a still picture.

Press to store.

* Can select Static only in RGB mode.

• Adjusting Color Temperature (Color temp.)

[V] [S] [C] [R] [D]

Use ↵ or ↵ to specify a desired color temperature. Each time you press ↵ or ↵, one of the available choices appears in the following sequence:

→ Warm ↔ Standard ↔ Cool ↔ User ←

Warm: More reddish colors

Standard: Standard color temperature

Cool: More bluish colors

User: User Color Temp. setup

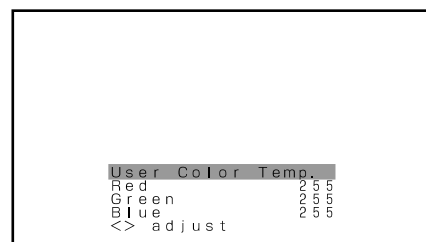
• Setting User Color Temp. (User Color Temp.)

[V] [S] [C] [R] [D]

Can set up when User is selected in Color Temp.

Press ↵ or ↵ to select Red, Green or Blue and press ↵ or ↵ to make adjustment in the range of 0 to 255.

* Color Temp. setup is switched to User. The initial value of User Color Temp. is adjusted individually at the factory.



User Color Temp.adjustment screen

* On-screen information disappears if you do not take any action for about 60 seconds.

* The following abbreviations used in this document represent input modes in which you can make adjustments:

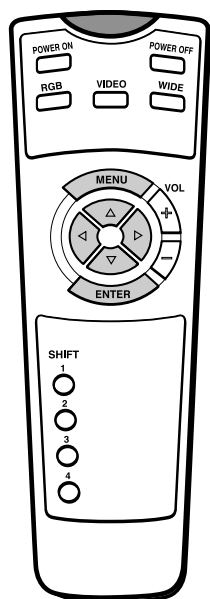
[V]: Video mode, [S]: S-video mode, [C]: Comp.video mode, [R]: RGB-PC mode, [D]: Decoder mode

ADJUSTING SCREEN POSITION AND SIZE (POSITION/SIZE MENU)

BASIC OPERATION [EX.: ADJUSTING HORIZONTAL DIRECTION OF SCREEN POSITION]

You can make changes to all screen adjustment options in the POSITION/SIZE Menu.

The changes you make will be stored for the selected input mode. Therefore, you need to select a desired input mode before making any changes.





* You can also use the switches on the display's control panel to accomplish these steps.

1 Press .

The main menu screen will appear.



2 Press or to select "POSITION/SIZE".

Each time you press  or , one of the available menus appears in the following sequence:

PICTURE  POSITION/SIZE  FEATURES  FACTORY DEFAULT

The POSITION/SIZE Menu screen will appear.

"POSITION/SIZE" selected from the main menu screen

3 Press or to select "Position".

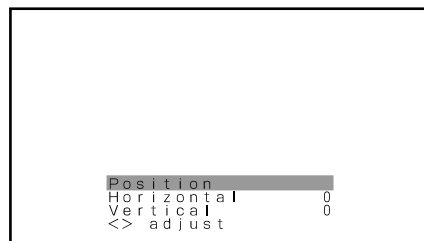
4 Press .

The "Position" adjustment screen will appear.

5 Press or to select "Horizontal" values of screen position.


6 Press .


The "Horizontal" adjustment screen will appear.



"Position" adjustment screen

7 Press or to change horizontal values.

: Moves screen to the right.

: Moves screen to the left.

8 Press to store.

Press  when you finish.

* Repeat steps 3 to 8 when you wish to make changes to other options.

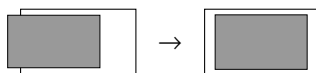


Adjusting Screen Position (Position)

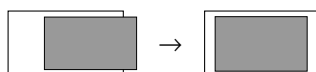
V S C R D

Horizontal position (Horizontal)

→: Moves screen to the right.

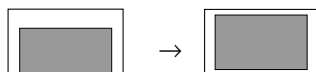


←: Moves screen to the left.

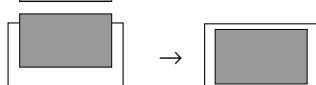


Vertical position (Vertical)

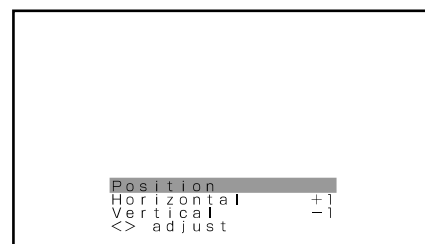
↑: Moves screen up.



↓: Moves screen down.



Press **ENTER** to store.



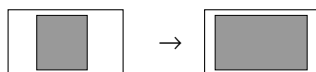
"Position" adjustment screen

Adjusting Screen Size (Size)

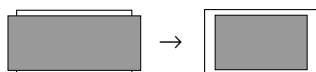
V S C R D

Screen width (Width)

→: Increases width.

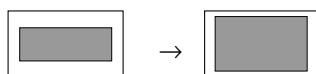


←: Reduces width.

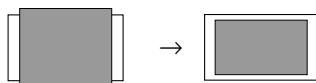


Screen height (Height)

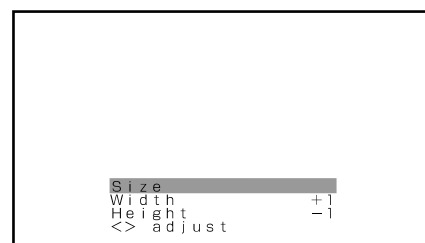
↑: Increases height.



↓: Reduces height.



Press **ENTER** to store.



"Size" adjustment screen

Setting Range

	Video, S-video mode	Comp.video mode	RGB mode
Position	Horizontal: -30 to +30 Vertical Zoom: -15 to +15 Others: -7 to +7	-16 to +16 -32 to +32(for1080I,720P)	-150 to +150
Size	-7 to +7	-4 to +4	-25 to +50

* On-screen information disappears if you do not take any action for about 60 seconds.

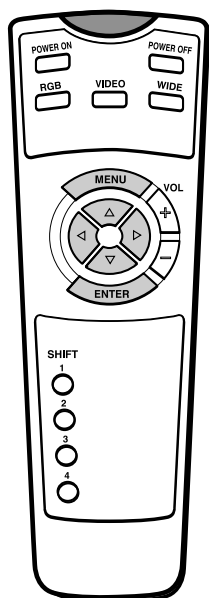
* The following abbreviations used in this document represent input modes in which you can make adjustments:

[V]: Video mode, [S]: S-video mode, [C]: Comp.video mode, [R]: RGB-PC mode, [D]: Decoder mode

OTHER ADJUSTMENTS (FEATURES MENU)

BASIC OPERATION [EX.: SELECTING LANGUAGE (Language)]

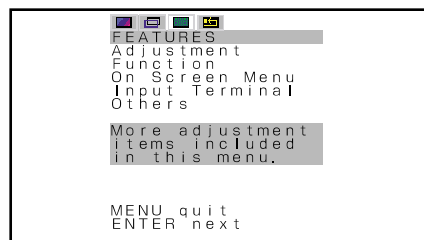
You can make the following changes in the FEATURES Menu.





* You can also use the switches on the display's control panel to accomplish these steps.

1 Press .

The main menu screen will appear.



2 Press  or  to select "FEATURES".

Each time you press  or , one of the available menus appears in the following sequence:

PICTURE ↔ POSITION/SIZE ↔ FEATURES ↔ FACTORY DEFAULT

The FEATURES Menu screen will appear.

"FEATURES" selected in the main menu screen

3 Press  or  to select "On Screen Menu".

- Select a desired option for adjustment/setup from Adjustment, Function, On Screen Menu, Input Terminal and Others.



On Screen Menu screen

4 Press .

- On Screen Menu appears.



5 Press  or  to select "Language".

6 Press .

The "Language" selection screen will appear.



"Language" selection screen

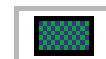
7 Press  or  to select the language.

8 Press .

The menu is displayed in the selected language.

Press  when you finish.

* Repeat steps 3 to 8 when you wish to make changes to other options.



• **FEATURES setup screen has the following 5 options.**

- Adjustment : Can make a fine adjustment of pictures such as Dot clock, Clamp position.
- Function : Can make a function setting such as Gradation. (See P. 30.)
- On Screen Menu : Can make a display setting such as OSD, Language. (See P. 30)
- Input Terminal : Can make an input terminal setting such as Video Input. (See P. 31 - 32.)
- Others : Can make other settings. (See P. 32 - 35.)

ADJUSTMENT

• **Adjusting Dot Clock (Dot clock)**



You may find that pictures blur, depending on the clock frequency of your PC's processor. If you experience blurring, you can obtain a clearer picture by adjusting the "Dot Clock".

Use or to select a value between -60 and +60.

Press to store.

• **Adjusting Clock Phase (Clock Phase)**



You may find that pictures blur, depending on the clock phase of your PC's processor. If you experience blurring, you can obtain a clearer picture by adjusting the "Clock phase".

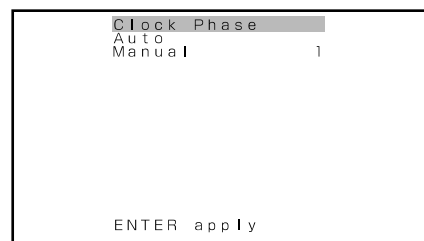
Use or to select "Auto" or "Manual".

Auto: Makes automatic adjustment.

Manual: Does not make automatic adjustment.

Use or to specify a value between 1 and 32.

Press to store.



When selecting Manual by Clock Phase

• **Eliminating Flicker (Vertical Sync)**



Corrects the vertical synchronization signal timing to eliminate vertical flicker.

Use or to specify a value between -1 and +1.

Press to store.

• **Adjusting Clamp Position (Clamp Position)**



Adjusts clamp pulse in accordance with the input signal received from connected equipment.

Clamp pulse is automatically set at the optimal level when you do not use this option.

Use or to specify a value between -8 and 8.

Press to store.

• **Selecting the Optimum Dynamic Range of Images (Auto Calibration)**



Receives a white screen signal and adjusts the dynamic range of images to the optimum.

(1) Select Auto Calibration and press .

Auto Calibration screen appears.

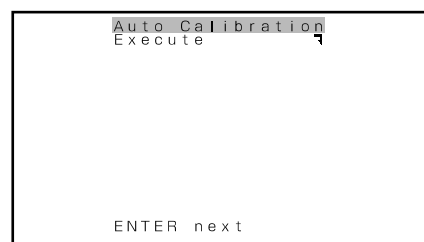
(2) Select Execute and press .

Press or to select Yes or No.

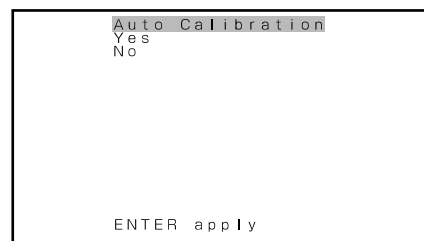
Yes: Stores the data of Auto Calibration.

No: Disables the execution result of Auto Calibration.

(3) Press to execute.



"Auto Calibration" setting screen



"Yes/No" selection screen

* On-screen information disappears if you do not take any action for about 60 seconds.

* The following abbreviations used in this document represent input modes in which you can make adjustments:



: Video mode, : S-video mode, : Comp.video mode, : RGB-PC mode, : Decoder mode


OTHER ADJUSTMENTS (FEATURES MENU)(Continued)

FUNCTION

• Correcting gradation (Gradation) [R]

You can use this option to make gradation corrections suitable for still or motion pictures.

Each time you press  or , one of the available choices appears in the following sequence:

Motion  Still

Motion : Suitable for watching motion pictures.

Still : Suitable for watching still pictures.



Press  to store.

ON SCREEN MENU

• Setting Display Information (OSD)

All modes

You can use this option to select whether to display information other than menus. (Error messages are displayed regardless of what choice you make for this option.)

Each time you press  or , one of the available choices appears in the following sequence:

On  Off

On : Displays all information.

Off : Displays only menus and error messages.



Press  to store.





• When rotating text (for installing the display with one of its sides facing down)

Rotating text (OSD Rotate)

All modes

You can use this option to rotate the text.

Each time you press  or , one of the available choices appears in the following sequence:

 -90 Deg.  Normal  +90 Deg. 

-90 Deg. : Displays text from left to right when the display is installed with the power indicator lamp at the top.

Normal : Displays text normally.


+90 Deg. : Displays text from left to right when the display is installed with the power indicator lamp at the bottom.

Press  to store.

• Selecting Language (Language)

All modes

You can use this option to select the language displayed on the screen.

(1) Select "Language" and press .

The "Language" selection screen will appear.

(2) Press  or  to select your desired language.

English

Deutsch (German)

Español (Spanish)

Français (French)

Italiano (Italian)

Português (Portuguese)

(3) Press .

The menu is displayed in the selected language.



"Language" selection screen

* On-screen information disappears if you do not take any action for about 60 seconds.



* The following abbreviations used in this document represent input modes in which you can make adjustments:

[V]: Video mode, [S]: S-video mode, [C]: Comp.video mode, [R]: RGB-PC mode, [D]: Decoder mode

INPUT TERMINAL

• Selecting Video Mode (Video Input) [V]

You can use this option to select the desired video mode of pictures it will receive to the Video Input terminal.

Each time you press  or , one of the available modes appears in the following sequence:

→ Auto ↔ NTSC ↔ PAL ↔ SECAM ↔ PAL60 ↔ 4.43NTSC ←

Auto: Automatically selects the video system.



(Does not automatically select other signal than NTSC, PAL and SECAM.)

Other than Auto: You need to select a system appropriate to the input signal.

Press  to store.

• Selecting Video Mode (S-Video Input) [S]

You can use this option to select the desired video mode of pictures it will receive to S-Video Input terminal.

Each time you press  or , one of the available modes appears in the following sequence:

→ Auto ↔ NTSC ↔ PAL ↔ SECAM ↔ PAL60 ↔ 4.43NTSC ←

Auto: Automatically selects the video system.

(Does not automatically select other signal than NTSC, PAL and SECAM.)



Other than Auto: You need to select a system appropriate to the input signal.

Press  to store.

• Masking BNC Input (Comp. Video Input) (BNC-Input)

All modes

You can use this option to mask the signal it will receive to BNC-Input Terminal(Comp. Video Input).

Each time you press  or , one of the available choices appears in the following sequence:

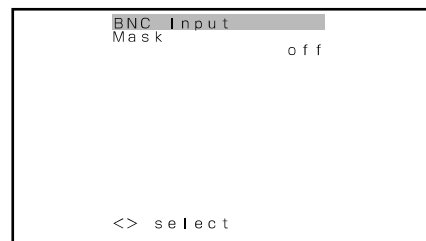
→ off ↔ 5 ↔ 10 ↔ 15 ←

Off: Does not mask.

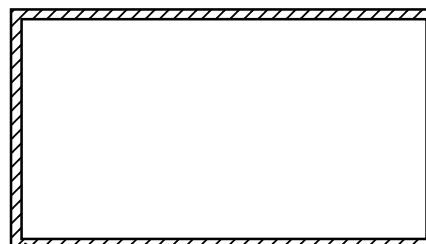
Number: Masks the fringe (top, bottom, right and left) of the screen by the number of pixels specified.

Press  to store..

* Depending on the input signal, unnecessary information may be displayed in the fringe of the screen. Setup mask if you do not want to see such information.



"BNC-Input" selection screen



This fringe part is masked.

* On-screen information disappears if you do not take any action for about 60 seconds.

* The following abbreviations used in this document represent input modes in which you can make adjustments:

[V]: Video mode, [S]: S-video mode, [C]: Comp.video mode, [R]: RGB-PC mode, [D]: Decoder mode


OTHER ADJUSTMENTS (FEATURES MENU)(Continued)

INPUT TERMINAL

• Selecting D-SUB Input (D-SUB Input)



All modes

You can use this option to select the signal system it will receive to D-SUB Input terminal.

- (1) Select D-SUB Input and press .

D-SUB Input screen appears.

- (2) Select the signal system to receive.

Each time you press  or , one of the available choices appears in the following sequence:

RGB-PC  Decoder






RGB-PC: For using RGB for PC

Decoder: For using digital broadcast tuner

- (3) Press  or  to select Function.

- (4) Select Decoder by FUNCTION to set up Mask.

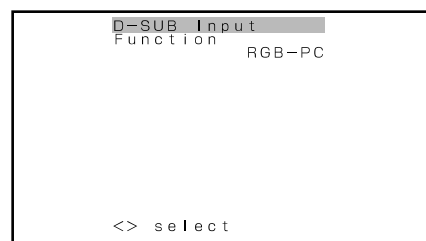
Each time you press  or , one of the available choices appears in the following sequence:

 off  5  10  15 

Off: Does not mask.

Number: Masks the fringe (top, bottom, right and left) of the screen by the number of pixels specified.

- (5) Press  to store.



"D-SUB Input" selection screen

OTHERS MENU


• Selecting time before DPMS starts (DPMS)

All modes

You can use this option to select the amount of time before the DPMS function starts.



DPMS (which stands for "display power management signaling") allows the display to maintain an automatic power saving function.







This function causes on-screen information to disappear until the next input operation, if the power is ON and the display has not received any signals for the predetermined period of time. When DPMS is active, the power indicator lamp turns orange.

- (1) Select DPMS and press .

DPMS screen appears.

- (2) Press  or  to select Time.

- (3) Each time you press  or , one of the available choices appears in the following sequence:

 off  1min.  15min.  45min.  60min. 

Off: Disables DPMS



Number: Approximate time before DPMS starts. (Unit: minutes)

* The power indicator lamp turns orange while the DPMS is ON.

* The power turns ON automatically when the display receives a signal.

- (4) Can specify background color.

Press  or  to select background color.

Each time you press  or , one of the available choices appears in the following sequence:

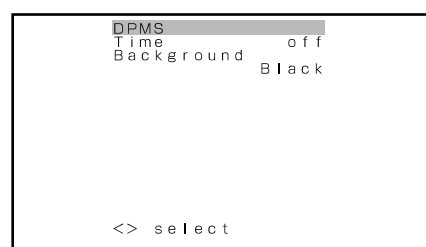
Black  White

Black: Mutes images in Black background.

White: Mutes images in White background.

* Switches approx. 20 seconds after the display stops receiving signals.






- (5) Press  to store.



DPMS selection screen

* On-screen information disappears if you do not take any action for about 60 seconds.


* The following abbreviations used in this document represent input modes in which you can make adjustments:

: Video mode, : S-video mode, : Comp.video mode, : RGB-PC mode, : Decoder mode



• Minimizing phosphor burn-in (Screen Orbiter)

[R] [D]



You can use this option to move the screen position to minimize phosphor-induced “burning”.
Follow the steps below.

- (1) Select “Screen Orbiter” and press .

The “Screen Orbiter” setting screen will appear.

- (2) Press  or  to select “Mode/Time”.

- (3) Select a desired pattern.



Each time you press  or , one of the available choices appears in the following sequence:



→ off ↔ Time ↔ Mode ←



Off: Disables Screen Orbiter.

Time: Moves the pattern approximately every one hour.

Mode: Moves the pattern when the power is turned ON or when you switch between modes.

- (4) Press  or  to select “Moving Area”.

- (5) Press  or  to select the range for moving the pattern.

Each time you press  or , one of the available choices appears in the following sequence:

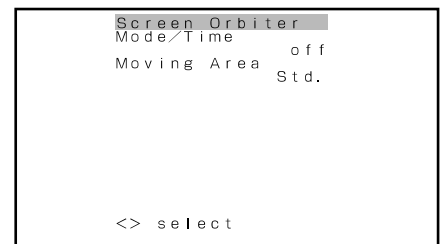
→ Min. ↔ Std. ↔ Max. ←

Min.: Pattern moves in small range. (About 5 pixels)

Std.: Pattern moves in moderate range. (About 10 pixels)

Max.: Pattern moves in wide range. (About 15 pixels)

- (6) Press  to store.



“Screen Orbiter” setting screen

Using screen protection functions (examples)



The screen protection functions minimize phosphor burn-in but cannot completely eliminate it.

When using the display occasionally	When using the display continuously
<ul style="list-style-type: none"> • Select a desired amount of time for “DPMS”. Thus, when the display does not receive a signal, it will automatically display white or black over the entire screen. When the predetermined time elapses, the power will turn OFF. 	<p>When switching between RGB and video input modes only occasionally</p> <ol style="list-style-type: none"> (1) Select “Time” for “Mode/Time” with “Screen Orbiter”. (2) Select a desired range for “Moving Area” with “Screen Orbiter”. This causes the screen saver pattern to move in the same range at regular intervals. <p>When switching between RGB and video input modes frequently</p> <ol style="list-style-type: none"> (1) Select “Mode” for “Mode/Time” with “Screen Orbiter”. (2) Select a desired range for “Moving Area” with “Screen Orbiter”. When the mode is switched from Video to RGB, the display position moves.

• Input mode of priority (Input priority)

All modes

You can use this option to switch between modes only when a signal is received through the selected input mode terminal. You cannot switch the input mode.

Each time you press  or , one of the available choices appears in the following sequence:

→ off ↔ RGB ↔ Video ↔ S-video ↔ Comp.video ←

Off: Switches between modes normally.

Other modes: Displays pictures when a signal is received through the selected input mode terminal.

Press  to store.

* On-screen information disappears if you do not take any action for about 60 seconds.

* The following abbreviations used in this document represent input modes in which you can make adjustments:



[V]: Video mode, [S]: S-video mode, [C]: Comp.video mode, [R]: RGB-PC mode, [D]: Decoder mode

OTHER ADJUSTMENTS (FEATURES MENU)(Continued)

• Assigning Numbers to Displays (Monitor No.)

All modes

When you use two or more displays, you can use a single remote control to control individual displays by assigning a unique number to each of the displays.

Each time you press  or , one of the available numbers appears in the following sequence:

→ 0 ↔ 1 ↔ 2 ↔ 3 ↔ 4 ←

0: You can normally control displays.

You cannot control displays if you press any of [SHIFT 1] through [SHIFT 4].

1–4: Allows you to control a desired display by pressing the corresponding button (one of [SHIFT 1] through [SHIFT 4]).

When you do not press any of the SHIFT buttons, you can control all displays.



Press  to store.

* You can check the "Monitor No." on the Information screen.

• Setting RGB Input Signal Compulsorily (Direct Setting)

You can use this option to switch the setting for RGB input signal.

Each time you press  or , one of the available choices appears in the following sequence:

→ Auto ↔ VGA ↔ WVGA ↔ 480P ↔ XGA ←

Auto: Automatically displays the input signal to the optimum.

VGA: Fixes the setting for the optimum resolution for VGA.

WVGA: Fixes the setting for the optimum resolution for WVGA.

480P: Fixes the setting for the optimum resolution for 480P.

XGA: Fixes the setting for the optimum resolution for XGA.



Press  to store.

* In Auto mode, the resolution of VGA, WVGA, 480P and XGA may not be automatically distinguished. Switch to the fixed display when the image is not displayed properly.

• Specifying RGB Input Signal Directly (Code Setting)

You can use this option to specify and display the type of RGB input signal directly.

Each time you press  or , one of the available choices appears in the following sequence:

Auto ↔ Manual

Auto: Automatically displays the input signal to the optimum.

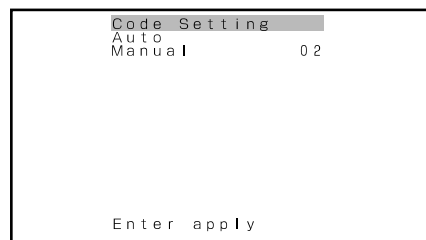
Manual: Selects RGB code number.

Press  to store.

* In Auto mode, the optimum resolution may not be set up automatically depending on the type of signal.

Select the type of signal when the image is not displayed properly.

However, note that when the type of signal is selected directly, the signal of other resolution may not be displayed properly.



"Code Setting" setting screen

• Displaying white over entire screen (White screen)

All modes

You can use this option to display white over the entire screen, so that brightness adjustments can be performed to minimize phosphor burn-in.

Each time you press  or , one of the available choices appears in the following sequence:

On ↔ Off






Off: Does not display white.

On: Displays a white screen immediately.

Press  to execute.

* On-screen information disappears if you do not take any action for about 60 seconds.



* The following abbreviations used in this document represent input modes in which you can make adjustments:

: Video mode, : S-video mode, : Comp.video mode, : RGB-PC mode, : Decoder mode

• Setting Exhibition Mode (Exhibition Mode)

All modes

You can use this option to display the enhanced contrast, which is most suitable for the use by unspecified persons.

Each time you press  or , one of the available choices appears in the following sequence:

On  Off

On: Sets up Exhibition mode.

Off: Sets up normal mode.

Press  to store.



* In Exhibition mode, the display returns to the original setting in about 5 minutes even if the adjustment is changed.


* The setup will be cancelled when removing the power plug from the receptacle.

• Horizontal/Vertical installation (Installation)

All modes

You can use this option to setup the number of fan rotation, etc. for horizontal and vertical installation.

Each time you press  or , one of the available choices appears in the following sequence:

Horizontal  Vertical

Horizontal: For installing horizontally

Vertical: For installing vertically



Press  to store.

* Be sure to make this setup when changing the direction of installation.

• Locking Main Unit Button (Key Lock)

All modes

You can use this option to disable the main unit button.

Each time you press  or , one of the available choices appears in the following sequence:






On  Off

On: Disables the main unit button.


Off: Enables the main unit button.

Press  to store.

• Displaying System Status (Information)

Displays system operation status.

Select "Information" and press .

The "Information" screen will appear.

Mode: Input mode appears at the upper right corner of the screen.



Monitor No.: Monitor number

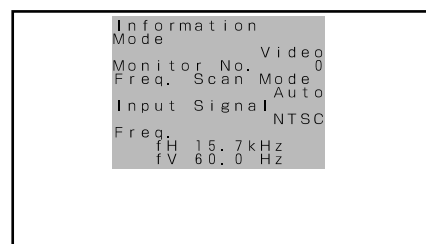
Freq. Scan Mode: Frequency scanning

Input Signal: Video mode

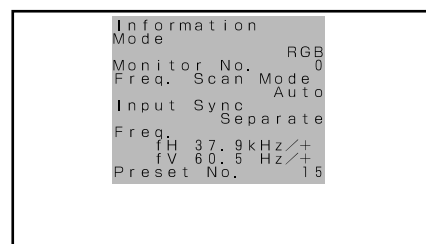
Input sync.: Signal type

Freq.: Frequency and polarity (fH, fV)

Preset No.: RGB code number (,  only)








Information screen (Video Input Mode)



Information screen (RGB Input Mode)

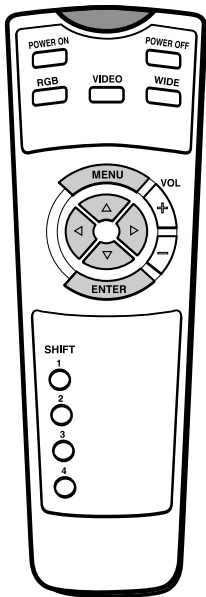
* On-screen information disappears if you do not take any action for about 60 seconds.

* The following abbreviations used in this document represent input modes in which you can make adjustments:

: Video mode, : S-video mode, : Comp.video mode, : RGB-PC mode, : Decoder mode

INITIALIZATION OF USER ADJUSTMENT VALUE(FACTORY DEFAULT)

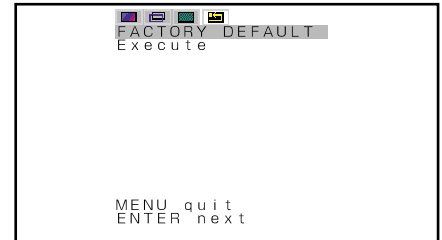
You can restore the values of the adjustment/setting made in the MENU to factory settings.



* You can also use the switches on the display's control panel to accomplish these steps.



1 Press .

The main menu screen will appear.



"FACTORY DEFAULT" selected in the main menu screen

2 Press or to select "FACTORY DEFAULT".

Each time you press  or , one of the available menus appears in the following sequence:

PICTURE ↔ POSITION/SIZE ↔ FEATURES ↔ FACTORY DEFAULT

The FEATURES Menu screen will appear.

3 Press .

- Displays the message of whether to proceed with the initialization.



Displays the message of whether to proceed the initialization

4 Press or to select the Yes.

5 Press .

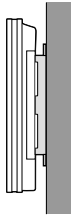
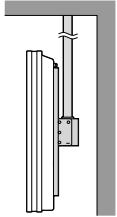
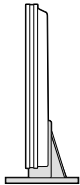
- The message of having completed the initialization will be displayed after initializing.

Press  when you finish.



Displays the message of having completed the initialization

OPTIONS

Wall-mounting unit (for both vertical and horizontal)	Vertical: 0° to 5° mounting angle Horizontal: 0° to 15° mounting angle	P-42WB12	
Hanging unit	0° to 15° mounting angle (variable) The pipe is not supplied with the ceiling-hanging unit, so consult your produce dealer.	P-42CT11	
Stand		P-42TT29	

- * When installing an option, make sure that all installation requirements for that option (as given in the relevant instruction manual) are met.
- * The colors of options do not match the display colors perfectly.

Warning

To prevent injury, fire, and electric shock, arrange for options to be initially installed (or installed at a different location) by your dealer.

FACTORY SETTINGS

This display can store parameter settings for four additional signals for RGB.

To do this, select a desired signal and follow the instructions in “Adjusting Screen Position and Size” on P. 26–27 to adjust the parameters. When you finish, the settings will be automatically stored. Thus, when the display receives that signal, pictures will be displayed in accordance with the settings you most recently selected.

Main corresponding signals (RGB-PC mode)

Display (dots x lines)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
852 x 480	31.72	59.97	When a dedicated graphics card is used
640 x 480	31.47	59.94	VGA
640 x 480	37.86	72.81	VGA 72 Hz
640 x 480	37.50	75.00	VGA 75 Hz
640 x 480	43.27	85.01	VGA 85 Hz
720 x 400	31.47	70.09	VGA 400 lines
800 x 600	37.88	60.32	SVGA 60 Hz
800 x 600	48.08	72.19	SVGA 72 Hz
800 x 600	48.88	75.00	SVGA 75 Hz
800 x 600	53.67	85.06	SVGA 85 Hz
1024 x 768	48.36	60.00	XGA 60 Hz
1024 x 768	56.48	70.07	XGA 70 Hz
1024 x 768	60.02	75.03	XGA 75 Hz
640 x 480	35.00	66.67	MAC 13RGB
848 x 480	31.02	60.00	
640 x 480	15.73	59.94	60 fields
640 x 480	15.63	50.00	50 fields
640 x 400	31.50	70.15	NEC 31 kHz

* With some input signals, “Out of range” may appear even when the horizontal and vertical frequencies are within their permissible ranges. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA and 75 Hz for XGA.

In the Comp.video and Video/S-video modes, the display has been factory-set as follows for different input signals:

Main corresponding signals (Comp.Video, Decoder mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
15.73	59.94	SDTV 480I
15.63	50.00	SDTV 576I
31.47	59.94	SDTV 480P
31.25	50.00	SDTV 576P
45.00	60.00	HDTV 720P
37.50	50.00	HDTV 720P
33.75	60.00	HDTV 1080I
28.13	50.00	HDTV 1080I

Main corresponding signals (Video, S-Video mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
15.73	59.94	NTSC
15.63	50.00	PAL
15.63	50.00	SECAM
15.73	59.94	PAL60
15.73	59.97	4.43NTSC

- With the 800 x 600 and 1024 x 768 modes, pictures of reduced size are displayed on the screen, using size reduction and interpolation. Note also that on-screen information is also displayed in reduced size.
- “Out of range” appears if the display receives a signal whose characteristic does not fall within the display’s permissible range.
- You can check input signals through “Information” on the FEATURES Menu screen. (See P. 35.)
- All terms (i.e., company and product names) used in this document are trademarks or registered trademarks.

SPECIFICATION

Model	PDS4229W		
Screen size	42" wide screen: 92.0 cm (W) x 51.8 cm (H) (105.6 cm diagonal) 36.2 inch (W) x 20.4 inch (H) (41.6 inch diagonal)		
Aspect ratio	16:9 (wide)		
Weight	28.5 kg / 62.8 lbs		
Outer dimensions	103.5 (W) x 64.0 (H) x 8.5 (D) cm / 40.7 (W) x 25.2 (H) x 3.3 (D) inch		
Power supply	100–240 VAC 50/60 Hz		
Power consumption	3.5 A (800 VA: Power ON, instantaneous power when outputting picture)		
Screen dimensions	92.0 (W) x 51.8 (H) cm / 36.2 (W) x 20.4 (H) inch		
Number of pixels	852 (H) x 480 (V)		
Display modes	Video, S-Video input: Normal/Wide1/Wide2/Zoom1/Zoom2		
	Component Video input: Normal/Wide1/Wide2/Zoom1/Zoom2		
	RGB-PC: Normal/Wide/Zoom		
	Decoder: Normal/Wide1/Wide2/Zoom1/Zoom2		
Colors	16.77 million (for each of 256 RGB gradations)		
External equipment terminals			
Video input terminals	Video input	1 BNC terminal	1 Vp-p/75 Ω
	S-video input	1 S terminal	Y: 1 Vp-p/75 Ω C: 0.3 Vp-p/75 Ω
	Component video input (color difference input)	3 BNC terminals	Y: 1 Vp-p/75 Ω Pb/B-Y: 0.7 Vp-p/75 Ω Pr/R-Y: 0.7 Vp-p/75 Ω
Applicable systems	NTSC/PAL/SECAM/PAL60/4.43NTSC		
PC input terminal	RGB input terminal	mD-sub, 3 rows, 15-pin Picture signal: 0.7 Vp-p/75 Ω Synchronization signal: TTL level	
Control terminal	1 RS-232C connector (D-sub 9-pin)		
Operating conditions	Temperature: 0 to 40 °C / 32 to 104 °F Humidity: 20 to 90 %		
Accessories	1 remote control, 2AA batteries, 1 instruction manual, 1 power cable, 2 ferrite cores		

Regulation PDS4229W

- UL, CSA Safety: UL1950/CSA C22.2 No.950
EMC: FCC Part 15 Class A, ICES-003 Class A
- CE Safety: EN60950 1992, A1: 1993, A2: 1993, A3: 1995, A4: 1997
EMC: EN55022 1994, Class A
EN61000-3-2 1995
EN61000-3-3 1995
EN55024 1998
EN61000-4-2 1995
EN61000-4-3 1996
EN61000-4-4 1995
EN61000-4-5 1995
EN61000-4-6 1996
EN61000-4-8 1993
EN61000-4-11 1994
- AS Safety: IEC60950 A1/A2/A3/A4
EMC: AS/NZS 3548

- Specifications and external appearance may be change for the sake of improvement.
- **Plasmavision** is a worldwide trademark of Fujitsu General Limited and is a registered trademark in Japan, the U.S.A. and other countries or areas.

CLEANING AND MAINTENANCE

Precautions

Be sure to remove the power plug from the receptacle before cleaning the display.

Be sure not to clean the display using a cloth dampened with volatile solvents, such as benzene or thinner. Such solvents can harm the display's cabinet, the filter at the screen front, and the remote control. They can also cause paint to come off these sections.

Cleaning the Cabinet and Remote Control

Use a soft cloth for cleaning.

If the cabinet or remote control is heavily stained, soak a soft cloth in a mixture of water and detergent and squeeze it dry before wiping off the stains. Use a soft, dry cloth for final cleaning.

Cleaning the Screen

Clean the screen gently with a soft cloth.

The screen surface is fragile. Never attempt to clean it with a hard material, press on it forcefully, or tap it.

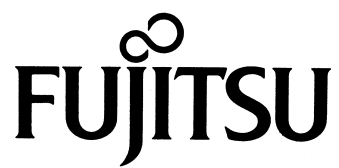
Cleaning the ventilation grille

Remove dust from the ventilation grille in the rear of the main unit periodically with a vacuum cleaner as the accumulated dust can increase the internal temperature of the main unit causing machine failure or fire hazard.

HANDY TIPS

In the event of problems with the display, check the following explanations before contacting your dealer for servicing.

Problem	Action
• Power does not turn ON.	• Check whether the power plug is securely inserted into the receptacle.
• No pictures are displayed.	• Check cables for disconnection. • Check whether the power for all input equipment is ON. • Check for connection to wrong terminals or for wrong input mode. • Check whether the input mode display is colored pink. Special setup may have been made. Return to original setup or initialize the User adjustment value.
• Remote control does not function properly.	• Check for incorrect battery orientation. • Check for dead batteries. • Check for distance from the display. • Check whether you are pointing the remote control transmitter properly at the display's receiver. • Check for any obstacle between the remote control and the display.
• The display makes a snapping sound.	• This sound is produced when the cabinet expands or contracts due to variations in temperature. This sound does not indicate that the display has a problem.
• The display makes a buzzing sound.	• The display has a fan to maintain the temperature of internal components at a constant level. This sound is produced by the fan as it rotates.
• There are spots on the screen.	• Check whether your AV equipment is affected by interference from automobiles, trains, high-voltage transmission lines, neon signs or other potential sources of interference.
• Degraded colors/tints	• Check whether all picture adjustments have been properly made. (See "Adjusting Pictures" on P. 24–25.)
• Improper screen position/size	• Check whether screen position and size have been properly adjusted. (See "Adjusting Screen Position and Size" on P. 26–27.)
• If "Invalid operation" appears.	• Check whether you have selected "Input Priority". (See "Features" on P. 33.)
• If "Out of range" appears, the display is receiving a signal whose picture or signal cannot be reproduced by the display.	• Input proper signals. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA and 75 Hz or less for XGA.
• The screen turns to black and white.	• Input proper signals. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA and 75 Hz or less for XGA.
• If "Error message Condition 1" appears, the fan is defective.	• Remove the power plug from the receptacle, and contact your dealer for repairs.
• If "Error message Condition 2" appears, the display's internal components are extremely hot.	• Remove the power plug from the receptacle. (You can turn the power back ON again when the components have cooled sufficiently.) If the message appears again when you turn the power back on, remove the power plug from the receptacle, and contact your dealer for a repairs.
• If the power indicator lamp flashes red.	• Remove the power plug from the receptacle, and inform your dealer about how the lamp flashed. As explained below, the power indicator lamp flashes differently depending on the type of problem: – Flashes repeatedly: Improper supply voltage level – Flashes once: Malfunction by the fan – Flashes twice: Excessive temperature – Flashes three times or more: Other problems



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